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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10595758
Filing Date	2006-05-09
First Named Inventor	Masuda Masahisa
Art Unit	2627
Examiner Name	Huy D. Nguyen
Attorney Docket Number	5869-0049

**U.S.PATENTS**

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	4972491		1990-11-00	Wilcox	
	2	5899973		1999-05-04	Bandara et al.	
	3	5824966		1998-10-20	Leight	
	4	5118309		1992-06-02	Ford	
	5	5099519		1992-03-24	Guan	
	6	4837829		1989-06-06	Lobb	
	7	4668842		1987-05-26	Yokoyama et al.	
	8	4644330		1987-02-17	Dowling	

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9	4403120		1983-09-06	Yoshimi	
10	4280018		1981-07-21	Lazarus et al.	
11	3781492		1973-12-00	Cragg et al.	
12	3829624		1974-08-00	Goodin et al.	
13	5104824		2000-08-00	Ito	
14	5172410		1992-12-00	Chace	
15	5287406		1994-02-00	Kakuishi	
16	5715309		1998-02-00	Bartkowiak	
17	5311144		1993-08-00	Grasset	
18	5235637		1993-08-00	Kraz et al.	
19	4691313		1987-09-00	Iwata	

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20	4065646		1977-12-00	Schuh	
21	5393989		1995-02-00	Gempe et al.	
22	5465298		1995-11-00	Wilkison et al.	
23	3114105		1963-12-00	Neumiller	
24	3370236		1968-02-00	Walker	
25	4002860		1977-01-00	Terai et al.	
26	4052562		1977-10-00	Anderson	
27	4598396		1986-07-00	Upp et al.	
28	4629829		1986-12-00	Puhl et al.	
29	4741018		1988-04-00	Potraz et al.	
30	4912758		1990-03-00	Arbel	

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31	5007046		1991-04-00	Erving et al	
32	5115471		1992-05-00	Liden	
33	5168522		1992-12-00	Simanis et al.	
34	5265264		1993-11-00	Dzunt et al.	
35	5379450		1995-01-00	Hirasawa et al.	
36	5471666		1995-11-00	Sugiyama et al.	
37	5586193		1996-12-00	Ichise et al.	
38	6175633		2001-01-00	Morrill et al.	
39	5692059		1997-11-00	Kruger, Fredrick M.	
40	4833719		1981-07-00	Carme et al.	
41	4156800		1979-05-00	Sear	

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42	4966045		1987-09-00	Rosenthal	
43	5335286		1994-08-00	Carlson et al.	
44	1224331		1917-05-00	Smith	
45	6105714		2000-08-00	Lindgren	
46	5265264		1993-11-00	Dzunt, et al.	
47	5410595		1995-04-00	Park et al.	
48	5907538		1999-05-25	White	
49	5307405		1994-04-26	Sih	
50	5202918		2002-03-00	Schultz et al.	

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**U.S.PATENT APPLICATION PUBLICATIONS**

Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
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**FOREIGN PATENT DOCUMENTS**

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1	0032833	JP		1981-04-00	Sugiyama		<input type="checkbox"/>
	2	2755561	FR		1998-05-07	Neill		<input type="checkbox"/>
	3	WO 97/27721	WO		1997-07-31	Makkonen		<input type="checkbox"/>
	4	WO 98/45937	WO		1998-10-15	Morrill		<input type="checkbox"/>
	5	2001060895	JP		1999-08-20	Hikima Hideo		<input type="checkbox"/>
	6	2109408	RU		1998-04-20	Qualcomm Inc.		<input type="checkbox"/>

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
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1	Sedra et al., "Microelectronic Circuits," July 1990, second edition, page 143.	<input type="checkbox"/>
2	Frank Kaspavec, St. Poelten, Austria, "Bilateral Speaker Networks Form Switchless Intercom, Electronics, Vol 53 page 131, July 3, 1980.	<input type="checkbox"/>
3	Compandor IC (Noise Reduction System), TK 10651M, -L, -D, TokyoSemiconductor, Catalog No. Z-1480110E.	<input type="checkbox"/>
4	D5004 Cellular Telephone Echo Control Device, DSP Group, Inc. Jan. 1991, Rev. 2.0.	<input type="checkbox"/>
5	Telephone Coupling Transformer, Mouser Electronics, Feb. 16 1995.	<input type="checkbox"/>
6	Audio Transformers Telephone Coupling, Magna Tek, 90 East Union Street, Goodland, IN 47948.	<input type="checkbox"/>
7	Engineering Bulletin, Magnekek Goodland, pp. 2-3	<input type="checkbox"/>
8	Low Voltage Compander, Specification and Applications Information, Motorola Semiconductors, MC33110.	<input type="checkbox"/>
9	LA8632M Case Outline: MFP-24S(300mil) Plastic Package.	<input type="checkbox"/>
10	International Search Report for PCT/US97/22887; Date of mailing Jan. 4, 1999; ISA/US.	<input type="checkbox"/>
11	International Search Report for PCT/US01/22121; Date of mailing Nov. 11, 2002; ISA/EPO	<input type="checkbox"/>

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12	International Preliminary Examination Report for PCT/US01/22121; Date of completion of report June 6, 2003.	<input type="checkbox"/>
13	International Search Report for PCT/US97/22887; Date of mailing Jan. 4, 1999; ISA/US.	<input type="checkbox"/>
14	International Search Report for PCT/US02/33799; Date of mailing Jan. 24, 2003; ISA/EPO	<input type="checkbox"/>
15	International Search Report for PCT/US04/37409; Date of mailing Aug. 29, 2005; ISA/US	<input type="checkbox"/>
16	International Preliminary Report on Patentability for PCT/US04/37409; Date of completion of report May 11, 2006; IPEA/US.	<input type="checkbox"/>
17	Written Opinion of the International Searching Authority for PCT/US04/37409; Date of mailing August 29, 2005; ISA/US	<input type="checkbox"/>
18	Stolowitz Ford Cowger Listing of Related Cases, September 2, 2009.	<input type="checkbox"/>
19	International Search Report for PCT/US09/38126; Date of mailing July 22, 2009; ISA/US	<input type="checkbox"/>
20	Written Opinion of the International Searching Authority for PCT/US09/38126; Date of mailing July 22, 2009; ISA/US	<input type="checkbox"/>

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Examiner Signature	/Huy Nguyen/	Date Considered	12/02/2009
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